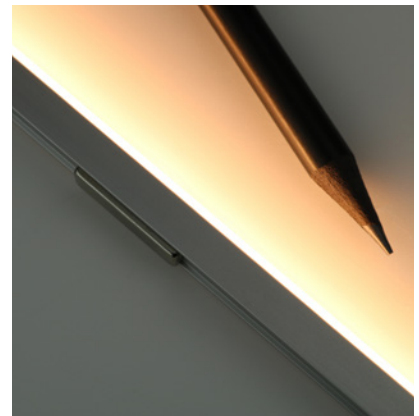


Linear

# TIMI-M A020 (20W) Fixture Guide

# KKDC

Indoor | Surface | Output up to 2800lm/m (853lm/ft)

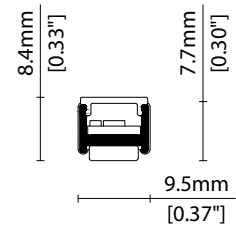


## Key applications

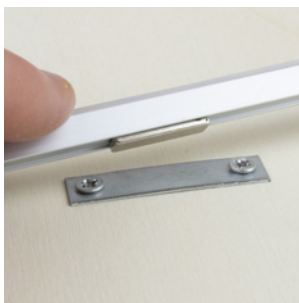
- ✓ Architectural detail
- ✓ Backlighting & signage
- ✓ Cabinet & furniture
- ✓ Cove lighting
- ✓ Display case
- ✓ Indirect lighting
- ✓ Interior
- ✓ Mirror back lighting
- ✓ Retail display
- ✓ Shelving display

## Key features

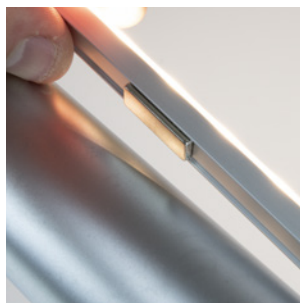
- ✓ A-line (High Efficacy)
- ✓ Custom lengths
- ✓ Cutable (IP20)
- ✓ Constant Voltage (CV)
- ✓ Diffusion: homogenous
- ✓ IP20 dry area
- ✓ IP44 moisture resistant
- ✓ Lens options



## MOUNTING METHODS



KKBK-20 Steel plate



Direct attachment

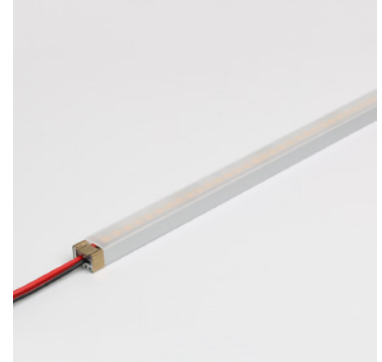
Linear

# TIMI-M A020 (20W)

## Specification sheet



<b>Dimensions</b>	H7.7/W9.5/L91-2014mm (H0.3/W0.37/L3.58-79.29in) (Double tail) H7.7/W9.5/L84-2007mm (H0.3/W0.37/L3.3-79.01in) (Single tail)
<b>PCB Cut-point</b>	38.46mm increment/2000mm max (1.51in increment/78.74in max)
<b>LED Pitch</b>	4.8mm - 208LED/m (0.19in - 64LED/ft)
<b>Chip</b>	<b>A-line</b>
<b>Cover/Optics</b>	No cover (120°) / Semi-diffused (100°) / KKLN-01D lens (14°)
<b>CCT</b>	<b>A-line:</b> 2700K/3000K/3500K/4000K
<b>LED binning</b>	<b>A-line:</b> 3-step MacAdam ellipse
<b>CRI</b>	≥94
<b>Lifetime</b>	50,000 hours @ 25°C (50,000 hours @ 77°F)
<b>Operating temp</b>	T <sub>a</sub> = -25 to 50°C (T <sub>c</sub> max = 90°C) T <sub>a</sub> = -13 to 122°F (T <sub>c</sub> max = 194°F)
<b>IP Rating</b>	IP20/IP44
<b>Finish</b>	Silver anodised
<b>Mounting</b>	Surface mounting via magnet
<b>Power feed</b>	Hardwire tails or male/female connectors
<b>Control</b>	0-10V/1-10V/DMX/DALI



### LED Grading Key

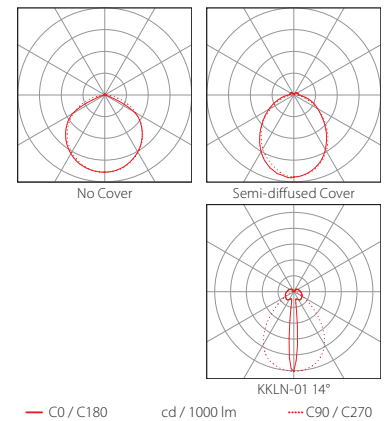
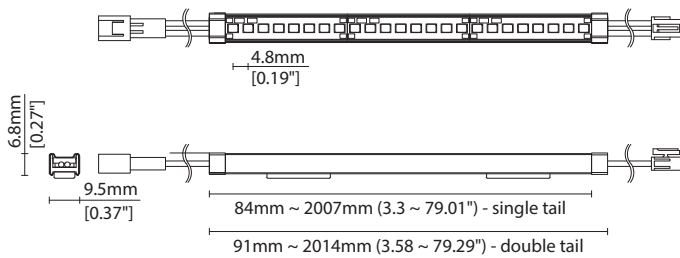
**Exclusive Grade** \*KKDC tuned CCT range  
**A-line\*** 3-step CCT range  
 KKDC highest lumen efficacy LED

<b>Power consumption</b>	<b>Supply voltage</b>	<b>Supply current</b>
20W/m (6.1W/ft)	24V DC	0.83A/m (0.25A/ft)

### Performance Data (3000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
<b>A-line</b>	94	98	99	92	93	97	91	82	62	94	93	77	95	99

	<b>No Cover</b>	<b>Semi-diffused</b>	<b>14° (KKLN-01)</b>	<b>CRI</b>	<b>R9</b>	<b>Rf</b>	<b>Rg</b>
<b>A-line</b>	2800lm/m (853lm/ft) 140lm/w	2400lm/m (731lm/ft) 120lm/w	2460lm/m (750lm/ft) 123lm/w	94	62	-	-



Data derived from independent UKAS/IESNA LM-79-08 accredited testing of production samples.

Linear

# TIMI-M A020 (20W)

## Code Table



### FIXTURE

Model	Finish	Cover/Lens <sup>1</sup>	Grade <sup>2</sup>	LED	Colour (CCT)	Length Availability <sup>3</sup>	IP	Cable Length	Power Feed <sup>4</sup>	Input									
TIMI-M	IM Silver Anodised	SA No cover <sup>5</sup> Semi-diffused <sup>5</sup> KKLN-01D (14°) <sup>5</sup>	X A- A D S	A020	020	2700K	27	m	90.92-2014mm <sup>6</sup> 83.92-2007mm <sup>7</sup> 38.46mm increments	IP20	20	50mm (1.97in)	0050	Single no sheath tail	S00X	DC 24V	g		
						3000K	30				IP44	44	300mm (11.81in)	0300	Double no sheath tail	D00X			
						3500K	35	i	3.58-79.29in <sup>6</sup> 3.3-79.01in <sup>7</sup> 1.51in increments							Single no sheath IP20 connector	S20X		
						4000K	40		(Specify length code OR total run length)							Double no sheath IP20 connector	D20X		

<sup>1</sup> Refer to **Cover/Lens Options** on **Options** pages    <sup>2</sup> Refer to **LED Grading Key** on **Specification sheet** page    <sup>3</sup> Refer to **Length Availability List** or enter total run length instead of length code  
<sup>4</sup> Refer to **Power feed Options** on **Options** pages    <sup>5</sup> Operating temperatures vary for TIMI-M with cover and TIMI-M without cover; please check with a KKDC engineer if operating temperature is limiting product application  
<sup>6</sup> Double clamp TIMI-M length    <sup>7</sup> Single clamp TIMI-M length

### Code Example:

IM	-	SA	-	D	-	A	-	020	-	30	-	m	-	514	-	20	-	0050	-	D20X	-	g
TIMI-M		Silver Anodised		Semi-diffused		A-		A020		3000K		514mm		IP20		50mm (1.97in)		Double no sheath IP20 connector		DC 24V		

### ACCESSORIES

#### Mounting Accessories

KKBK-20 Steel plate

\* Refer to **Mounting accessories** on **Accessories** pages

#### Connection Accessories

- KKCN-01 2 PIN male & female 50mm (1.97in) pair
- KKCN-03 2 PIN male & female 300mm (11.81in) pair
- KKCN-06 2 PIN 300mm (11.81in) extension lead

\* Refer to **Power feed** on **Accessories** pages

#### PSU/Driver

0-10V/1-10V/DALI/DMX

\* Refer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option

### LED ENGINE VARIANTS (LED STRIP TYPE)

Colour	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	R007	690	210	7	2.13	TIMI-M R007	97-2014mm (3.81-79.29in)	41.7mm (1.64in)
	R014	1380	421	14	4.27	TIMI-M R014	97-2014mm (3.81-79.29in)	41.7mm (1.64in)
	A010	1400	426	10	3.05	TIMI-M A010	91-2014mm (3.58-79.29in)	38.46mm (1.51in)
	<b>A020</b>	<b>2800</b>	<b>853</b>	<b>20</b>	<b>6.10</b>	<b>TIMI-M A020</b>	<b>91-2014mm (3.58-79.29in)</b>	<b>38.46mm (1.51in)</b>
Warm Dim/Dynamic White	R207	1577	481	16	4.88	TIMI-M R207	97-2014mm (3.81-79.29in)	83.3mm (3.28in)
RGB	501	Red: 150	Red 46	15.6	4.88	TIMI-M RGB	97-2014mm (3.81-79.29in)	83.3mm (3.28in)
		Green: 320	Green 98					
		Blue: 50	Blue 15					
		RGB: 460	RGB 140					

\* Performance data: A-line, 3000K, no cover

Linear

# TIMI-M A020 (20W)

## Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0091	i0004	91mm	3.58in	77mm	3.03in	N/A	N/A	1.54	215
m0129	i0005	129mm	5.09in	115mm	4.54in	N/A	N/A	2.31	323
m0168	i0007	168mm	6.61in	154mm	6.06in	N/A	N/A	3.08	431
m0206	i0008	206mm	8.12in	192mm	7.57in	N/A	N/A	3.85	538
m0245	i0010	245mm	9.64in	231mm	9.09in	N/A	N/A	4.62	646
m0283	i0011	283mm	11.15in	269mm	10.60in	N/A	N/A	5.38	754
m0322	i0013	322mm	12.67in	308mm	12.11in	N/A	N/A	6.15	862
m0360	i0014	360mm	14.18in	346mm	13.63in	N/A	N/A	6.92	969
m0399	i0016	399mm	15.69in	385mm	15.14in	N/A	N/A	7.69	1077
m0437	i0017	437mm	17.21in	423mm	16.66in	N/A	N/A	8.46	1185
m0476	i0019	476mm	18.72in	462mm	18.17in	N/A	N/A	9.23	1292
m0514	i0020	514mm	20.24in	500mm	19.69in	N/A	N/A	10.00	1400
m0552	i0022	552mm	21.75in	538mm	21.20in	N/A	N/A	10.77	1508
m0591	i0023	591mm	23.26in	577mm	22.71in	N/A	N/A	11.54	1615
m0629	i0025	629mm	24.78in	615mm	24.23in	N/A	N/A	12.31	1723
m0668	i0026	668mm	26.29in	654mm	25.74in	N/A	N/A	13.08	1831
m0706	i0028	706mm	27.81in	692mm	27.26in	N/A	N/A	13.85	1938
m0745	i0029	745mm	29.32in	731mm	28.77in	N/A	N/A	14.62	2046
m0783	i0031	783mm	30.84in	769mm	30.28in	N/A	N/A	15.38	2154
m0822	i0032	822mm	32.35in	808mm	31.80in	N/A	N/A	16.15	2262
m0860	i0034	860mm	33.86in	846mm	33.31in	N/A	N/A	16.92	2369
m0899	i0035	899mm	35.38in	885mm	34.83in	N/A	N/A	17.69	2477
m0937	i0037	937mm	36.89in	923mm	36.34in	N/A	N/A	18.46	2585
m0976	i0038	976mm	38.41in	962mm	37.86in	N/A	N/A	19.23	2692
m1014	i0040	1014mm	39.92in	1000mm	39.37in	N/A	N/A	20.00	2800
m1052	i0041	1052mm	41.44in	1038mm	40.88in	N/A	N/A	20.77	2908
m1091	i0043	1091mm	42.95in	1077mm	42.40in	N/A	N/A	21.54	3015
m1129	i0044	1129mm	44.46in	1115mm	43.91in	N/A	N/A	22.31	3123
m1168	i0046	1168mm	45.98in	1154mm	45.43in	N/A	N/A	23.08	3231
m1206	i0047	1206mm	47.49in	1192mm	46.94in	N/A	N/A	23.85	3338
m1245	i0049	1245mm	49.01in	1231mm	48.46in	N/A	N/A	24.62	3446
m1283	i0051	1283mm	50.52in	1269mm	49.97in	N/A	N/A	25.38	3554
m1322	i0052	1322mm	52.04in	1308mm	51.48in	N/A	N/A	26.15	3662
m1360	i0054	1360mm	53.55in	1346mm	53.00in	N/A	N/A	26.92	3769
m1399	i0055	1399mm	55.06in	1385mm	54.51in	N/A	N/A	27.69	3877
m1437	i0057	1437mm	56.58in	1423mm	56.03in	N/A	N/A	28.46	3985
m1476	i0058	1476mm	58.09in	1462mm	57.54in	N/A	N/A	29.23	4092
m1514	i0060	1514mm	59.61in	1500mm	59.06in	N/A	N/A	30.00	4200
m1552	i0061	1552mm	61.12in	1538mm	60.57in	N/A	N/A	30.77	4308
m1591	i0063	1591mm	62.63in	1577mm	62.08in	N/A	N/A	31.54	4415
m1629	i0064	1629mm	64.15in	1615mm	63.60in	N/A	N/A	32.31	4523
m1668	i0066	1668mm	65.66in	1654mm	65.11in	N/A	N/A	33.08	4631
m1706	i0067	1706mm	67.18in	1692mm	66.63in	N/A	N/A	33.85	4738

Linear

# TIMI-M A020 (20W)

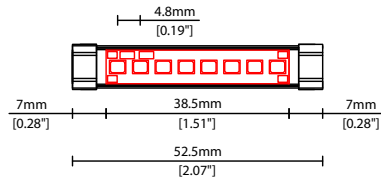
## Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m1745	i0069	1745mm	68.69in	1731mm	68.14in	N/A	N/A	34.62	4846
m1783	i0070	1783mm	70.21in	1769mm	69.65in	N/A	N/A	35.38	4954
m1822	i0072	1822mm	71.72in	1808mm	71.17in	N/A	N/A	36.15	5062
m1860	i0073	1860mm	73.23in	1846mm	72.68in	N/A	N/A	36.92	5169
m1899	i0075	1899mm	74.75in	1885mm	74.20in	N/A	N/A	37.69	5277
m1937	i0076	1937mm	76.26in	1923mm	75.71in	N/A	N/A	38.46	5385
m1976	i0078	1976mm	77.78in	1962mm	77.23in	N/A	N/A	39.23	5492
m2014	i0079	2014mm	79.29in	2000mm	78.74in	N/A	N/A	40.00	5600

<sup>1</sup> Actual total overall length of light fixture (LED strip + end caps + void/wire hole)

<sup>2</sup> Actual length of PCB strip



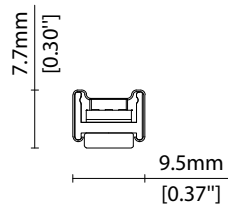
Linear

# TIMI-M A020 (20W)

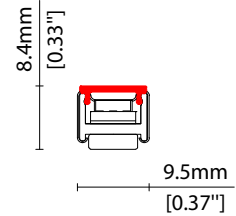
## Options

# KKDC

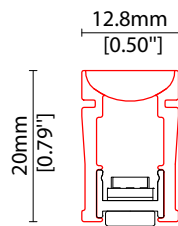
### COVER/LENS OPTIONS



**X** No cover  
W9.5/H7.7mm (W0.37"/H0.30")



**D** Semi-diffused cover  
Polycarbonate finish  
W9.5/H8.4mm (W0.37"/H0.33")

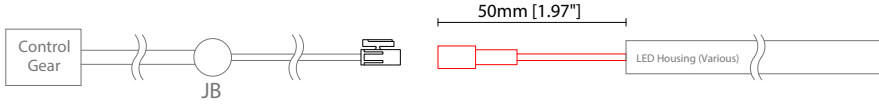


**S** 14° lens (KCLN-01D)  
14° beam linear lens,  
co-extruded PMMA  
W12.8/H20mm (W0.50"/H0.79")

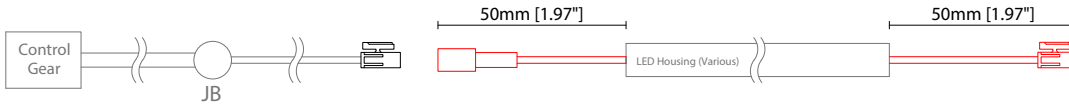
### POWER FEED OPTIONS

\* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.

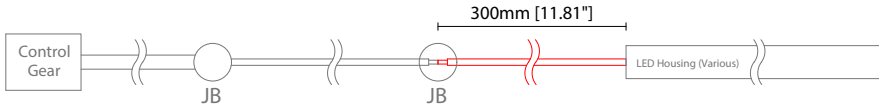
**0050 S20X 50mm (1.97") Single no sheath IP20 connector**



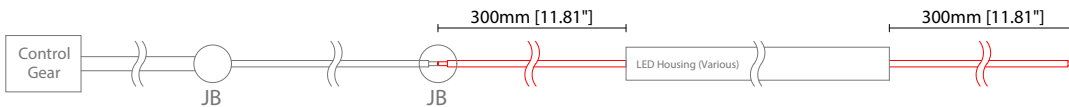
**0050 D20X 50mm (1.97") Double no sheath IP20 connector**



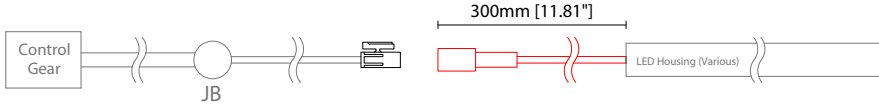
**0300 S00X 300mm (11.81") Single no sheath tail**



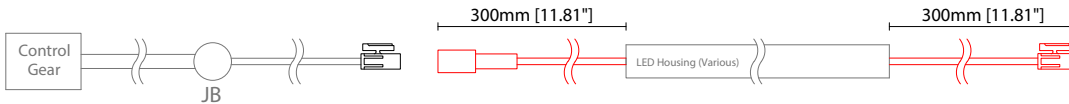
**0300 D00X 300mm (11.81") Double no sheath tail**



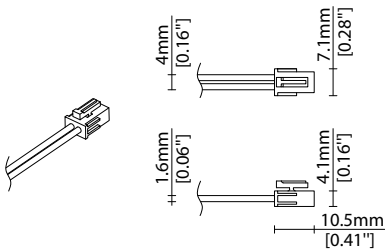
**0300 S20X 300mm (11.81") Single no sheath IP20 connector**



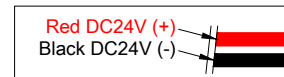
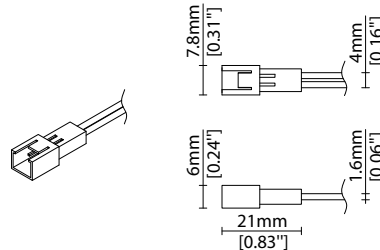
**0300 D20X 300mm (11.81") Double no sheath IP20 connector**



### 2 Pin Female Connector



### 2 Pin Male Connector



### Key

Control Gear Power supply, sub-controllers & control systems

JB Junction box / cable connection

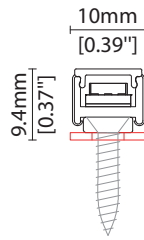
Linear

# TIMI-M A020 (20W) Accessories



## MOUNTING ACCESSORIES

Note: Accessories are to be ordered separately with corresponding code shown below.

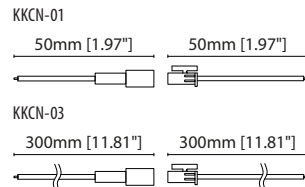


**KKBK-20**

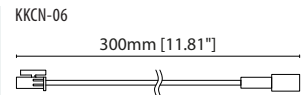
Steel plate (allow 4 per metre/40")  
Steel finish

L40/W10/H9.4mm  
(L1.58/W0.39/H0.37")

## POWER FEED



**KKCN-01** 50mm (1.97in) pair  
**KKCN-03** 300mm (11.81in) pair  
2 PIN male + female connector set



**KKCN-06**  
2 PIN 300mm (11.81in) extension  
lead

Linear

# TIMI-M A020 (20W) Accessories

# KKDC

## KKDC CONTROL



IP20  
Plastic housing  
L170/W59/H29mm  
(L6.69/W2.32/H1.14in)

**KKDM-06** 1-10V  
visDIM dimmable sub-controller  
(4 x 8A max @ 12-36V)



IP20  
Plastic housing  
L170/W53.4/H28mm  
(L6.69/W2.10/H1.10in)

**KKSC-05** DMX  
visDIM dimmable sub-controller  
(4 x 5A max @ 12-36V)



IP20  
Plastic housing  
L170/W59/H29mm  
(L6.69/W2.32/H1.14in)

**KKDL-02** DALI  
visDIM dimmable sub-controller  
(4 x 8A max @ 12-36V)



IP20  
Plastic housing  
L166/W53.4/H23mm  
(L6.54/W2.10/H0.91in)

**KKDL-03** DALI  
visDIM dimmable sub-controller  
(4 x 5A max @ 12-36V)



IP20  
Plastic housing  
L170/W53.4/H28mm  
(L6.69/W2.10/H1.10in)

**KKDL-04** DALI-2  
visDIM dimmable sub-controller  
(4 x 5A max @ 12-36V)



IP20  
Plastic housing  
L170/W53.4/H28mm  
(L6.69/W2.10/H1.10in)

**visDIM PRO 30** DALI-2  
30kHz PWM Frequency  
visDIM dimmable sub-controller  
(4 x 5A max @ 12-36V)

### AVAILABLE PSU OPTIONS

Control Mode	PSU (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating
Switched	CEN-60-24	90-295V	24V	2.5A	60W	-	IP67
	HLG-60H-24	90-305V	24V	2.5A	60W	-	IP67
	HLG-100H-24	90-305V	24V	4.0A	100W	-	IP67
	HLG-150H-24	90-305V	24V	6.3A	150W	-	IP67
	HLG-240H-24	90-305V	24V	10A	240W	-	IP67
0-10V (1-10V)	PWM-40-24	90-305V	24V	1.67A	40W	100-0.15 (100-10)	IP67
	PWM-60-24	90-305V	24V	2.5A	60W	100-0.15 (100-10)	IP67
	PWM-90-24	90-305V	24V	3.67A	90W	100-0.15 (100-10)	IP67
	PWM-120-24	90-305V	24V	5.0A	120W	100-0.15 (100-10)	IP67
DALI	LIN100A1	120-277V	24V	1A per channel	100W	100-0.1	IP66/IP40
DMX RGB	LIN100A1	120-277V	24V	1.33A per channel	100W	100-0.1	IP66/IP40
DMX RGBW	LIN100A1	120-277A	24V	1A per channel	100W	100-0.1	IP66/IP40

### Flicker Free Options - Combination of PSU+ sub-controller

Control Mode	PSU (Order Code)	Sub-controller (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating PSU/ Sub-controller
0-10V or 1-10V	CEN-60-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKDM-06	90-295V	24V	4.0A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKDM-06	90-295V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKDM-06	90-295V	24V	10.0A	240W	100-0.9	IP67/IP20
DALI	CEN-60-24	KKDL-02/03/04/visDIM PRO 30	90-295V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-60H-24	KKDL-02/03/04/visDIM PRO 30	90-305V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-100H-24	KKDL-02/03/04/visDIM PRO 30	90-305V	24V	4.0A	100W	100-0.1	IP67/IP20
	HLG-150H-24	KKDL-02/03/04/visDIM PRO 30	90-305V	24V	6.3A	150W	100-0.1	IP67/IP20
	HLG-240H-24	KKDL-02/03/04/visDIM PRO 30	90-305V	24V	10.0A	240W	100-0.1	IP67/IP20
DMX RGB	CEN-60-24	KKSC-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKSC-05	90-305V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKSC-05	90-305V	24V	4A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKSC-05	90-305V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKSC-05	90-305V	24V	10.0A	240W	100-0.9	IP67/IP20

<sup>1</sup> The items shown above cover the most frequently used specification but does not exhaust the possible options

<sup>2</sup> PSU and/or driver can be chosen from the table, or KKDC may recommend the best option upon receipt of the controls requirement and installation environment

<sup>3</sup> Electrical shop drawing will include detailed information of PSU and relevant control drivers

<sup>4</sup> Cut sheets are available on the controls section of [www.kkdc.lighting](http://www.kkdc.lighting) or upon request